



# CHENNAI METRO RAIL NEWS LETTER

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## Second part of statutory inspection by Commissioner for Metro Railway Safety on CMRL

Commissioner for Metro Railway Safety, Thiru.S.K Mittal conducted second part of safety audit inspection on the Chennai Metro Rail on 20th and 21st April 2015 in Chennai.

**Stations:** CMRS conducted inspection in Koyambedu, CMBT, Arumbakkam, Vadapalani and Ashok Nagar stations and in Viaducts and Electrical works. He inspected on works such as escalators, lifts, station control room, registers maintained, station working orders, interacted with station controller, verified on essential equipments. A demo on fire alarm system, Ticket Office Machine, Ticket Vending Machine and Automatic Fare Collection Gates and display board, Passenger Emergency Telephone (PET) and Passenger Information Displays were shown.

Inspection of Signaling Equipment Room (SER), Telecom Equipment Room (TER) transformer room, UPS emergency lighting system was also conducted.

**Tracks :** Inspection of turnout, curves, point machine, track circuit inspection/test, track circuit test gauge, levels, walkway height, OHE measurements – height, stagger were done.

**Operation Control Centre:** Demonstration of Train operation, Communication with train, fault recordings and interaction with RS Controller, Fault Management Controller, power supply, power block etc were shown.

Procedures for train working during emergencies, CCTV live viewing and playback of recorded video and record & playback were checked and verified by CMRS.

**Depot:** Inspection of Receiving Sub Station, verification of records, interaction with operating and maintenance personnel, tests and Inspection of OMV, under floor wheel lathe, track layouts, depot machines were conducted.

Commissioner travelled by train up to Ashok Nagar and recordings were done.

Thiru.PankajKumar Bansal,I.A.S, MD, CMRL, Thiru.R.Ramanathan, Director (Proj), Thiru.L.Narasim Prasad, Director(S&O), Deputy CRS(S&T), Thiru.E.Srinivas, Deputy CRS(Traction) Thiru.G.P.Garg, Secretary Thiru.Mehmood Athani and other senior officials of CMRL were present during inspection.





**Education**  
is a  
**progressive**  
**discovery**  
of our  
**own ignorance.**

**Will Durant**



### Progress of Tunnelling works as on 30-4-15.

Package	TBM	From	To	Tunnelling length in mtr	completed in mtr	Percentage completed
<b>UAA 01</b>	TBM 1	Washermenpet Metro	Egmore Metro	4445	2731	61.4
	TBM 2	Washermenpet Metro	Egmore Metro	4445	2849	64.1
	TBM 3	May Day Park	Central Metro	1040	1040	100
	TBM 3	May Day Park	Central Metro	1040	220	21.2
<b>UAA 02</b>	TBM 1	May Day Park	AG-DMS	3616	1835	50.7
	TBM 2	May Day Park	AG-DMS	3616	1700	47
<b>UAA 03</b>	TBM 1	Saidapet Metro	AG-DMS	2868	2863	99.8
	TBM 2	Saidapet Metro	AG-DMS	2868	2532	88.3
<b>UAA 04</b>	TBM 1	Nehru Park	Egmore Metro	948	948	100
	TBM 2	Nehru Park	Egmore Metro	948	948	100
	TBM 3	Pachaiyappa's College	Nehru Park	1474	1474	100
	TBM 1	Pachaiyappa's College	Shenoy Nagar	966	966	100
	TBM 2	Pachaiyappa's College	Kilpauk	898	898	100
	TBM 2	Pachaiyappa's College	Shenoy Nagar	966	966	100
	TBM 1	Kilpauk	Nehru Park	576	576	100
<b>UAA 05</b>	TBM 1	Shenoy Nagar	Thirumangalam	2797	2797	100
	TBM 2	Shenoy Nagar	Thirumangalam	2797	2797	100
			<b>Total</b>	36308	28140	77.5

### Track work progress as on 30-4-15.

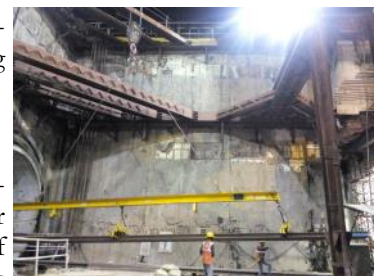
In corridor II from Central Metro to St. Thomas Mount Metro track work completed for a length of 23725m and 22 turnouts were laid on viaduct between Thirumangalam and St. Thomas Mount Metro.

In depot, track finishing works completed for a length of 13615m and balance in progress.

In corridor I from Washermanpet Metro to Airport, plinth concrete completed for a length of 8409m and between Saidapet Metro to Nanganallur Road and 8 turnouts were laid. Track finishing works is in progress between Guindy Metro and Alandur.

Track work in progress in left service loop at Alandur which is connecting corridor I and corridor II.

Track works started in underground section connecting Koyambedu to Thirumangalam. Flash welding of rails completed for the stretch of Thirumanglam to Anna Nagar East. Unloading of rails were started at Shenoy Nagar in underground section. Rails were unloaded and Flash Butt Weld Completed in Egmore underground section.





## Progress of Depot work as on 30-4-2015



Work shop line



Under floor wheel workshop



Paver works in front of stabling area

*"Society exists only as a mental concept: in the real world there are only individuals."*  
**Oscar Wilde.**



Sno	Description	Status of Work
1	Stabling Shed	Roof sheeting works are in progress. Raised platform work completed in 4 lines balance work in progress.
2	Rolling stock shed	Testing and commissioning of minor machineries are in progress; Over Head works such as commissioning of EOT, fixing of lights are in progress. Inspection line works completed.
3	Effluent Treatment Plant	Excavation completed, civil structural works are in progress
4	Under Ground Services	Track drainage works, telecom line, light tension line works, Fire Protection system and Public Health System lines, Pond preparatory, storm water drain leading to pond are in progress.
8	Other miscellaneous works	1 km out of 3 km road works completed, sectioning works for the landscaping are in progress, 12 No of 19 high mast lights are commissioned, Depot street light fixing, security cabin, compressor room and Diesel storage tank works are in progress.



*The only  
source of  
knowledge  
is experience.*

**Albert Einstein.**



## Progress of civil works in Elevated Sections as on 30-4-15



Alandur station



Ekkantuthangal station

## Progress from Little Mount to Nanganallur Road

Item	Total Nos	Completed Nos
Pile caps	110	Completed
Open foundations	170	completed
Piers	283	281



St Thomas Mount station

## Progress from Nanganallur Road to Airport



Airport Station

Item	Total Nos	Completed Nos
Open foundation	134	127
Pier	134	115
Cut and Cover ramp excavation	1,01,540 cum	82,403 Cum
PCC	1948 cum	1780cum
RCC works	21,222 cum	14514 cum
Span erection	88	56
Segment casting	Completed	
Portal beam	26	16



## Progress of works in Under Ground Sections

Name of Work	Status
<b>UAA 01</b> Washermenpet Metro, Mannadi, High Court, Central Metro and Egmore Metro and May Day Park	<p>* <b>Washermenpet Metro station</b> : Ancillary building retaining wall work in progress. Base to concourse staircase 2nos completed. Architectural works in progress. 37 out of 164 OTE duct erection completed.</p> <p>* <b>Mannadi station</b> : Architectural works in progress. Ancillary building retaining wall work in progress. Entry/Exit 02 roof slab completed.</p> <p>* <b>High Court station</b> : 184 out of 231 D wall panels for Entry/Exit structures completed. Entry structure 01 base slab works are in progress. Entry structure -04, 05 excavation works in progress. Architectural works in progress</p> <p>* <b>Central Metro station: 210</b> roof slab casted. 78m concourse slab completed. Concourse slab rebar work in progress. Ancillary building pile works are in progress.</p> <p>* <b>Egmore Metro station:</b> Entry structures-03, 04 excavation works in progress. Base to concourse staircase 1 no completed. Architectural works in progress.</p>
<b>UAA 02</b> Government Estate, LIC and Thousand Lights	<p>*<b>Government Estate station</b> : 35 no of D wall and 23 plunge column for entry/exit A,B completed. 212m of roof slab completed. 43 m of roof for entry B has been completed. 13 nos Columns casted for ancillary building.</p> <p>*<b>LIC station</b> : 72 no of D wall completed for entry/exit structure. 14 nos of plung columns completed for entry/exit -C and D. Piling work for ancillary building in progress.</p> <p>*<b>Thousand Lights station</b> : 66 no of D wall for entry/exit A,B completed. 58m of roof slab has been completed. Decking work for road diversion completed. Ancillary building foundation works under progress.</p>
<b>UAA 03</b> AG-DMS, Teynampet, Nandanam and Saidapet Metro	<p>*<b>AG – DMS Station</b> – 10 no's of D wall panels of entrances and roof slab of 132m and entire 234m half width (westside) and 92m of concourse slab completed.</p> <p>*<b>Teynampet Station</b> – 70 no's of D wall panels of entry / exit structure and all 230 m of roof slab completed.</p> <p>*<b>Nandanam Station</b> – 90 no's of D wall panels of entry / exit and 232 m of roof slab west side and east side 76 m completed. 6 mconcourse slab completed.</p> <p>*<b>Saidapet Metro Station</b> – Concourse and roof slab completed. 49 no of D wall panels of entrances completed.</p> <p>*<b>Saidapet Ramp</b> – 149 m base slab and 44 m roof slab completed .</p>
<b>UAA 04</b> Nehru Park, Kilpauk and Pachaiappa's College.	<p>*<b>Nehru park station:</b> 208m roof slab. 221m concourse slab and 227m base slab casted. 34 roof slab and entire 60 m base slab for entry D completed. 22 nos D wall panels completed in Entry C and 10 panels in entry B completed.</p> <p>* <b>Kilpauk Station:</b> 11 D wall panels in entry C and 5 D wall panels in entry B completed. Roof slab works in progress at entry A. Platform slab work in progress. Excavation work in progress for ancillary building. 93 out of 184 OTE duct erected.</p> <p>*<b>Pachaiyappa's College station</b> : Platform slab work in progress in main station area. Block work in progress at concourse level. 36 out of 184 OTE duct have been erected.</p>
<b>UAA 05</b> Shenoy Nagar, Anna Nagar East, Anna Nagar Tower and Thirumangalam	<p>* <b>Shenoy Nagar station:</b> 240m Roof slab, 336m Concourse slab and entire base slab completed in main station box. 118m platform slab completed in main station box. Ancillary building work in progress.</p> <p>* <b>Anna Nagar East station:</b> Roof and concourse slab completed ;126 out of 147 D wall panels completed for entry/exit structures. 25m and 26m roof slab in entry/exit 01 and 02 completed respectively. 76m roof slab in entry/exit 04 completed. Ancillary building works in progress.</p> <p>* <b>Anna Nagar Tower station:</b> 168m platform slab completed in main station box. 49m base slab and 25m roof slab completed in Entry/Exit-03. 36m base slab completed in Entry/Exit-04. 40 nos OTE ducts erected in main station.</p> <p>* <b>Thirumangalam station:</b> 151m platform slab completed. 93 out of 95 D wall panels completed for entry/exit structures. Base and roof slab completed in entry/exit 03and 04 complete. 91 nos OTE ducts erected in main station.</p>



Work in progress at Egmore station



Work in progress at Central Metro



OTE duct work in progress at Pachaiyappa's station



WORK IN PROGRESS AT Anna Nagar East STATION



Ancillary building work in progress at Thirumangalam



## Rolling Stock progress as on 30-4-2015

### Transfer of Technology and Progress in production of trains in India

The first twelve trains (train no10 to 21) manufactured from Sri City are delivered to CMRL Depot. The trains are under various stages of testing in CMRL depot.

- Train no 10 to 16 has completed all tests in depot and mainline.
- Trains 17 &21 are under various stage of static inspection and tests in depot and mainline.
- Trains 22 has completed all routine test and final inspection is under progress.
- Train no 23 is undergoing routine static test at Alstom factory, Sricity.
- Train no 24 to 29 are under various stages of production as per schedule at Alstom factory, Sricity



### **CMRL provides escalator facilities to public.**

Central Metro underground station work is progressing near Chennai Central Railway station. Due to the construction work a temporary foot over bridge was provided by CMRL for the movement of public.

Adding to the above facilities in order to make the crossing safe and comfortable for the elderly persons and children, CMRL has also installed a escalator near the foot over bridge. Escalator was opened for the use of public from 6-4-15.





## Progress of Elevated Station Works as on 30-4-2015

Koyambedu, CMBT, Arumbakkam, Vadapalani, Ashok Nagar, Ekkatuthangal and Alandur stations—all structural and architectural works completed. MEP and Fire fighting works completed. Street level development works completed. Signage works in progress. Painting and street level lighting works completed. Plumbing works for water and drainage connection in progress. Testing and commissioning of signalling system is completed. Telecom work in finishing stage. AFC equipments installation completed and testing under progress. Installation, testing and commissioning of lifts and escalators completed.

Little Mount, Meenambakkam and Airport stations all structural works completed, block work, plastering and roof structural works in progress. MEP and fire fighting works in progress.



Guindy Metro station



Little Mount station



Nanganallur Road station



St Thomas Mount Metro Station

S. No	Stations Description	Guindy Metro		Nanganallur Road		ST Mount Metro	
		Total nos	Completed	Total nos	Completed	Total nos	Completed
1	Pile cap	Completed		13	5	Completed	
2	Stub column	76	67	56	48	205	190
3	Plinth beam at street level (mt)	800	640	420	370	3900	3730
4	Footings	63	59	39	37	217	202
5	Column above tie beam	94	70	53	45	228	207
6.	Concourse level slab	2237	1750	1990	1200	11840	9600
7	Platform Level	NA	NA	1000	900	7	6
8	Roof Slab	NA	NA	550	450	NA	NA
9	Column above platform	NA	NA	32	22	NA	NA

NA- Not Applicable



## Rewards

Thiru.P K Parthiban,DGM (F&A), Thiru.T R Anand,Manager (F&A), Tmt Sashikala M Mahipala, Manager(Fin),Thiru S Chidambaram,AM(Accounts), Thiru.T Sampath Kumar,AM (F&A), Tmt.P Andal,Company Secretary, Selvi. A Vn Anusha,AM(Audit), Thiru.N Senthil Kumar,AM(F&A), Thiru.G Boopathy,Account Asst, Thiru.D Dharmaraj,Account Asst, Thiru.S SivaKumar,PA to GM(F) and Tmt.S Radha,PA to Director(F) of finance division were given certificate of appreciation and reward for their effective coordination and providing required information work during the visit of JICA team to CMRL.

The following staff of Depot (machines) division Thiru.G Selvakumar,AM, Thiru.SaravanaKumar JE, Thiru.Vinodkumar JE, Thiru.Vishnuperumal Technician, Thiru Abdul Satar, Technician and Thiru.C.Saravanan Technician were given certificate of appreciation and reward for their active participation during erection, commissioning testing and running of trials of Under Floor Wheel Lathe and Train Wash Plant at Depot.

Depot control team Senior members Thiru.V.Subramanian, TO, and Thiru.S.Sundarapandian, TO were given certificate of appreciation and reward in reorganization of their extraordinary contribution and providing main line driving training to all TO's of CMRL

## Safety Awards

American Society of Safety Engineers (ASSE) presented India Chapter Safety Professional Award for 2015 to Thiru.C.Kannan, Head-Occupational Health, Safety & Environment, EGIS India in a function recently held at Kolkata. EGIS India is one of the General Consultant (EMBYE) for Chennai Metro Rail Project)



Managing Director of Chennai Metro Rail Limited Thiru. Pankaj Kumar Bansal, I.A.S., appreciated Thiru.C.Kannan and his team efforts taken for implementation of safety standards in Chennai Metro Rail Project.

The award was presented in reorganization of the exemplary performance and valuable contribution by safety professionals in cultivation of “protecting people, property and the environment.



## OHE work in progress between Little Mount and Alandur

Over Head Electrical work is in progress between Little Mount and Alandur of corridor I. So far 108 no of masts and 47 no of cantilever assemblies have been erected.



## Oral Cancer Screening Programme for CMRL contract labours



Oral Cancer Screening Programme was conducted for CMRL contract labours/ISMW by Cancer Research & Relief Trust (C.R.R.T) at labour camp of ECV 02 and 03 package of L&T on 19-4-15 About 110 members were benefited from the camp. There was no positive detection of Oral Cancer during the screening programme.

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